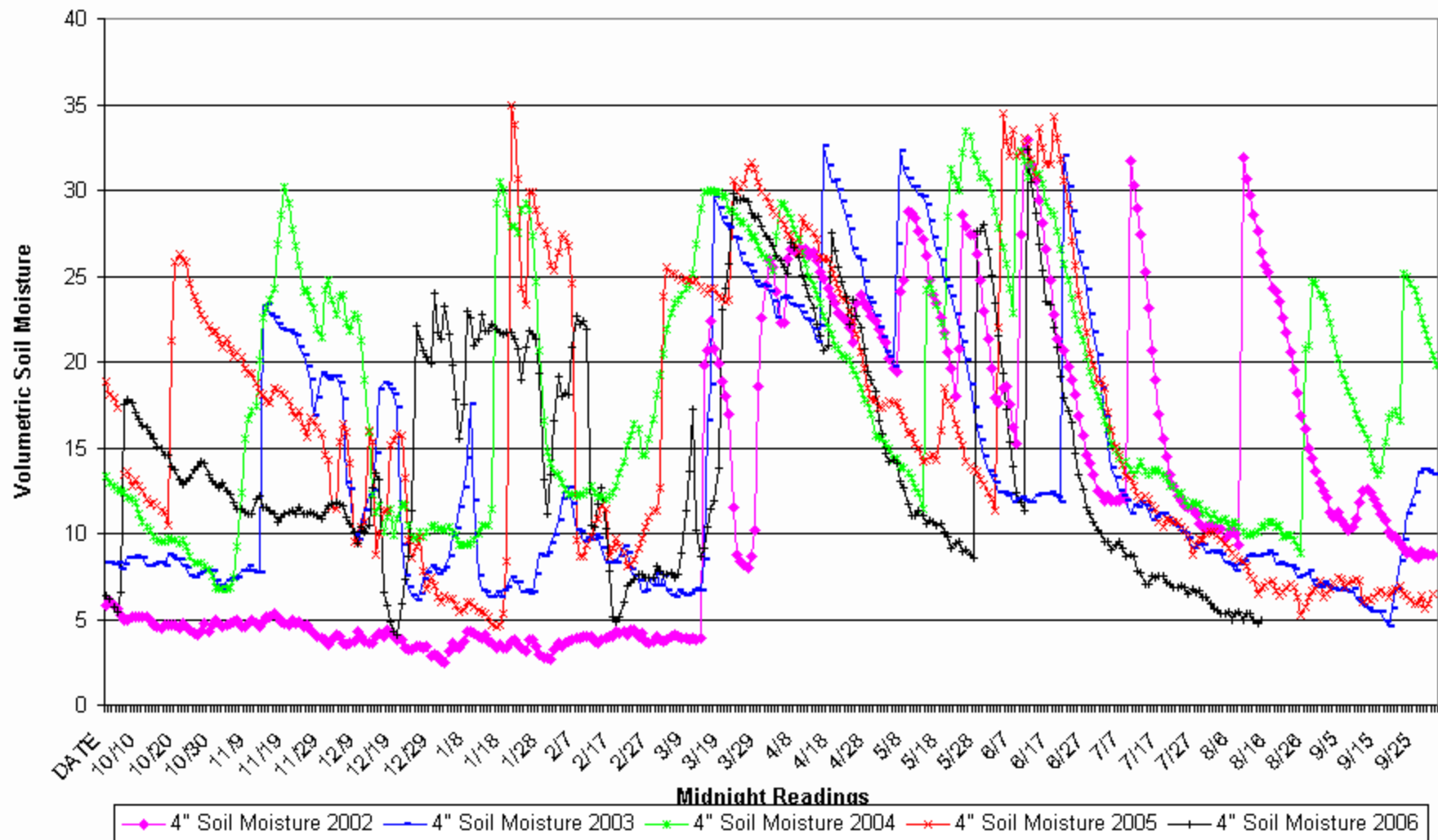


MONTANA NATURAL RESOURCES CONSERVATION SERVICE  
GOVERNOR'S DROUGHT ADVISORY COMMITTEE REPORT  
August 17, 2006

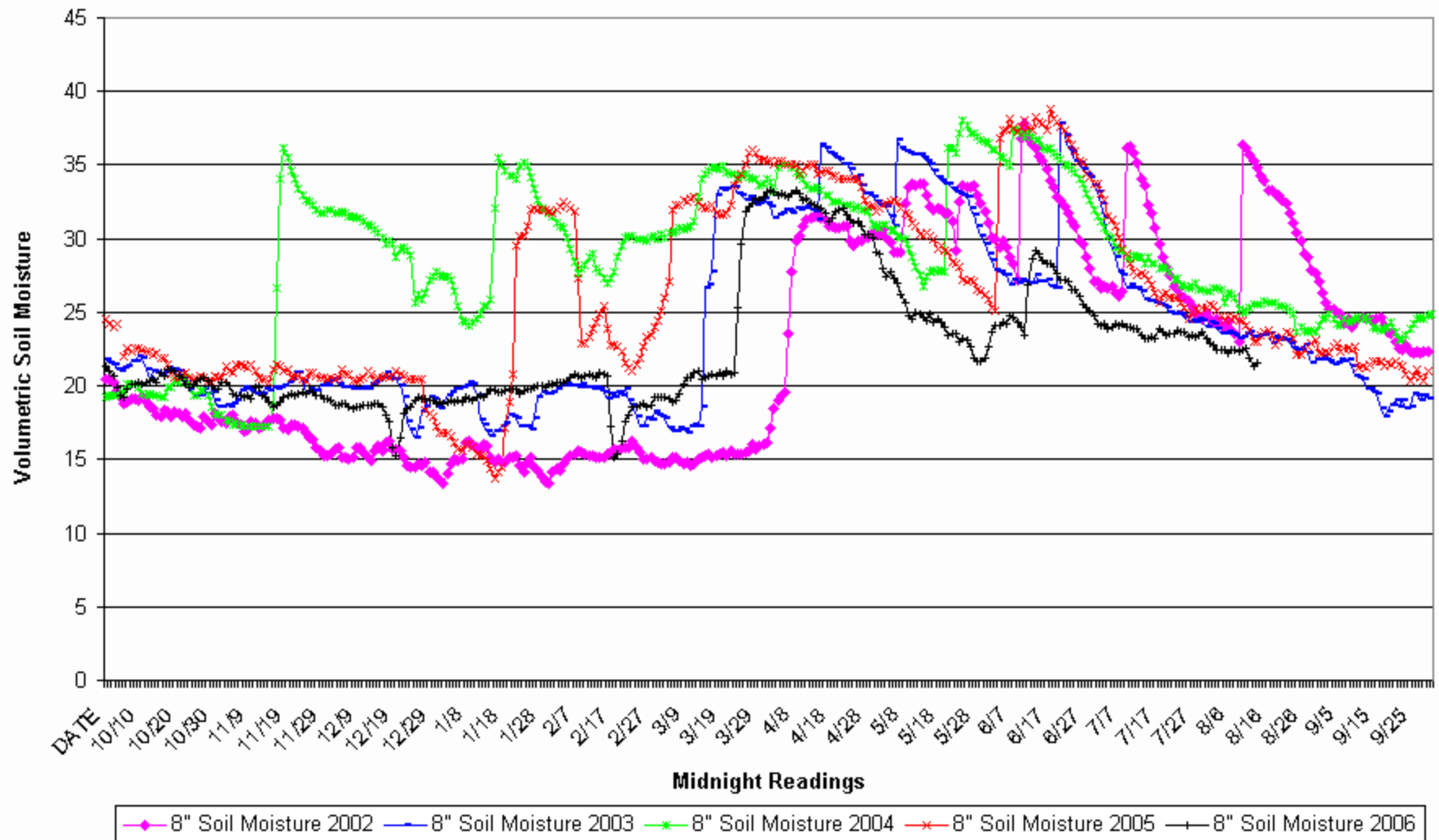




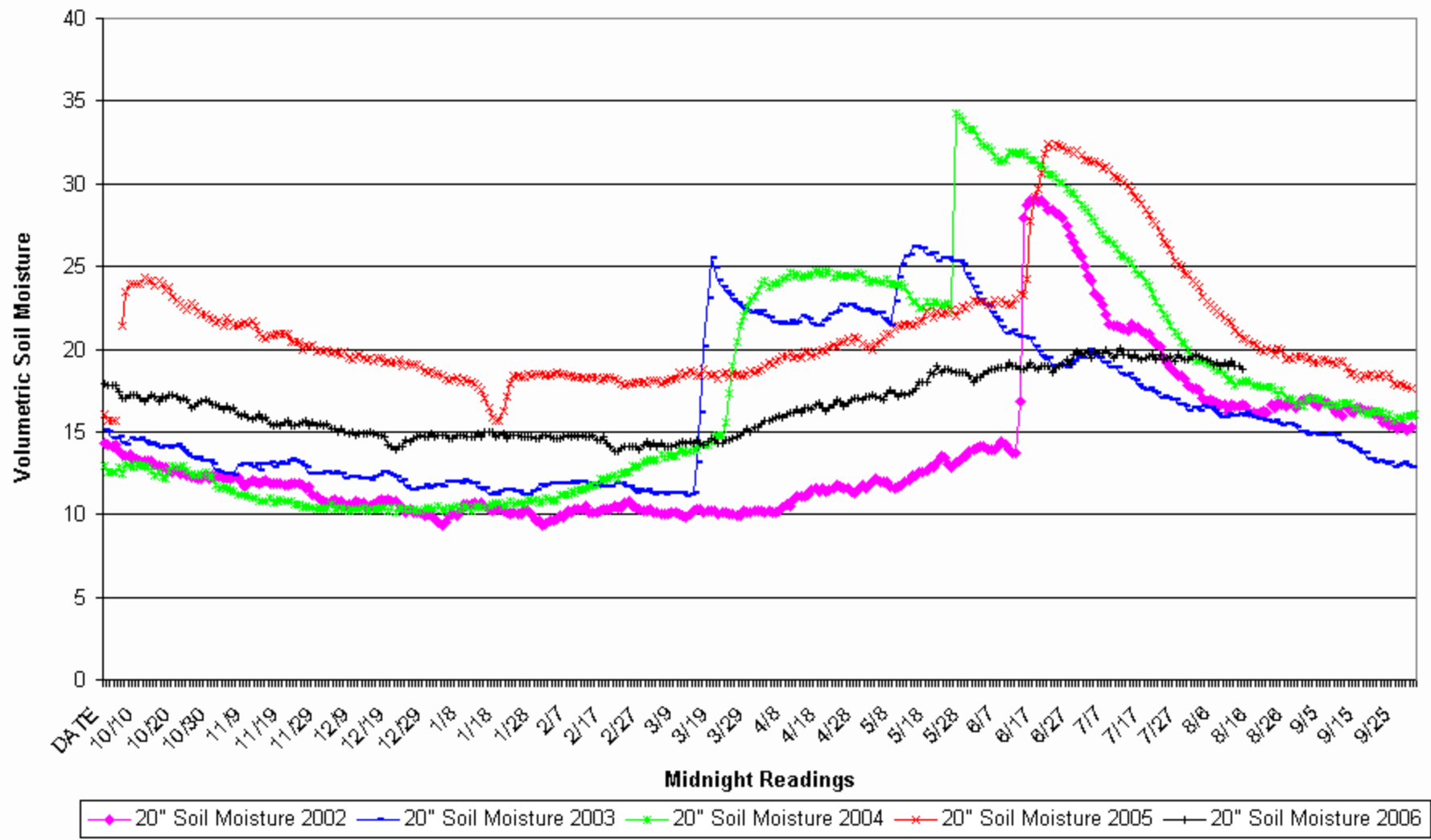
Fort Assiniboine, MT  
4" Soil Moisture, Water Year 2002, 2003, 2004, 2005, 2006  
Preliminary Data Subject to Change



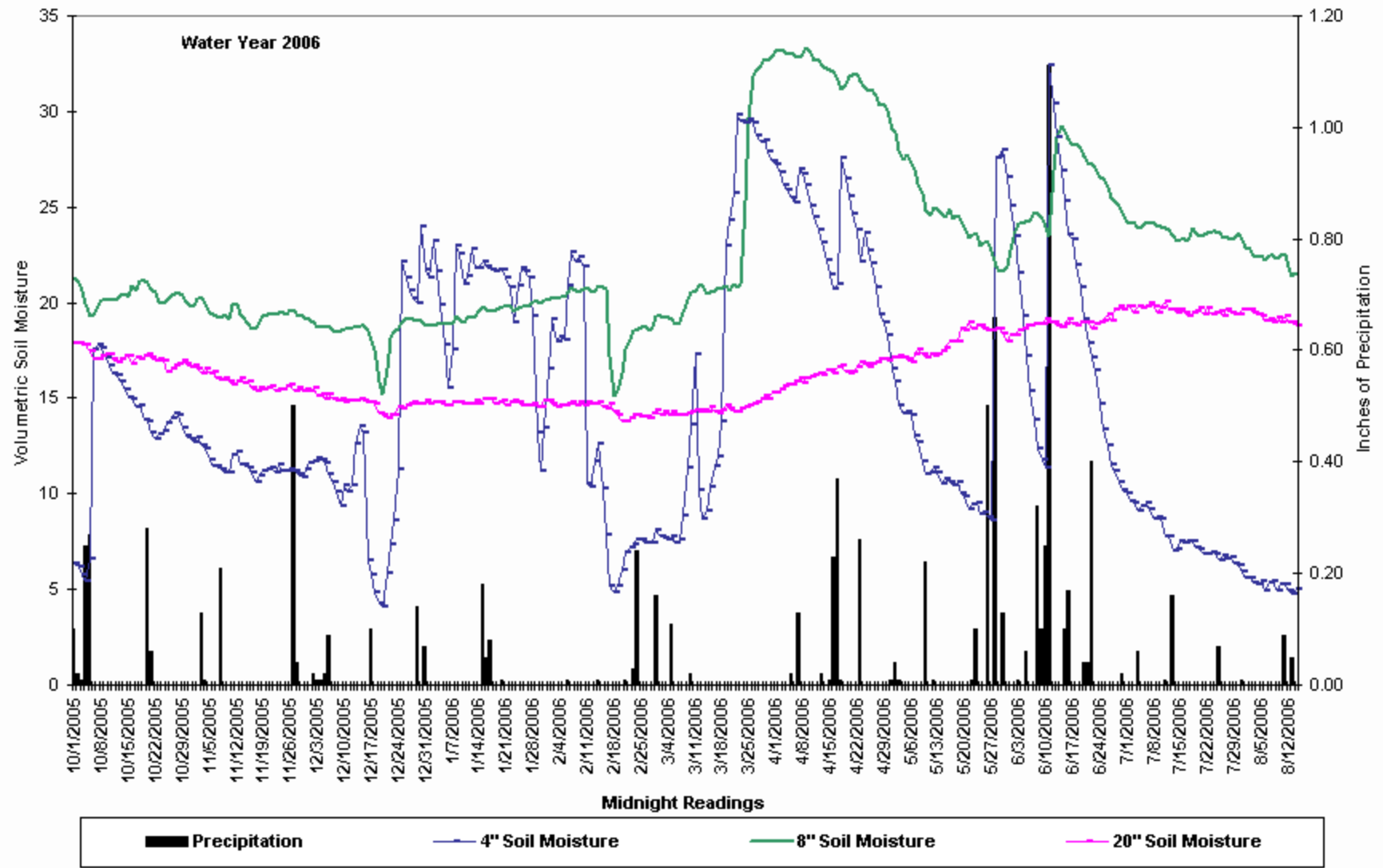
Fort Assiniboine, MT  
8" Soil Moisture, Water Year 2002, 2003, 2004, 2005, 2006  
Preliminary Data Subject to Change



Fort Assiniboine, MT  
20" Soil Moisture, Water Year 2002, 2003, 2004, 2005, 2006  
Preliminary Data Subject to Change



**Fort Assiniboine, MT**  
**Soil Moisture vs. Precipitation**  
**PRELIMINARY DATA SUBJECT TO CHANGE**



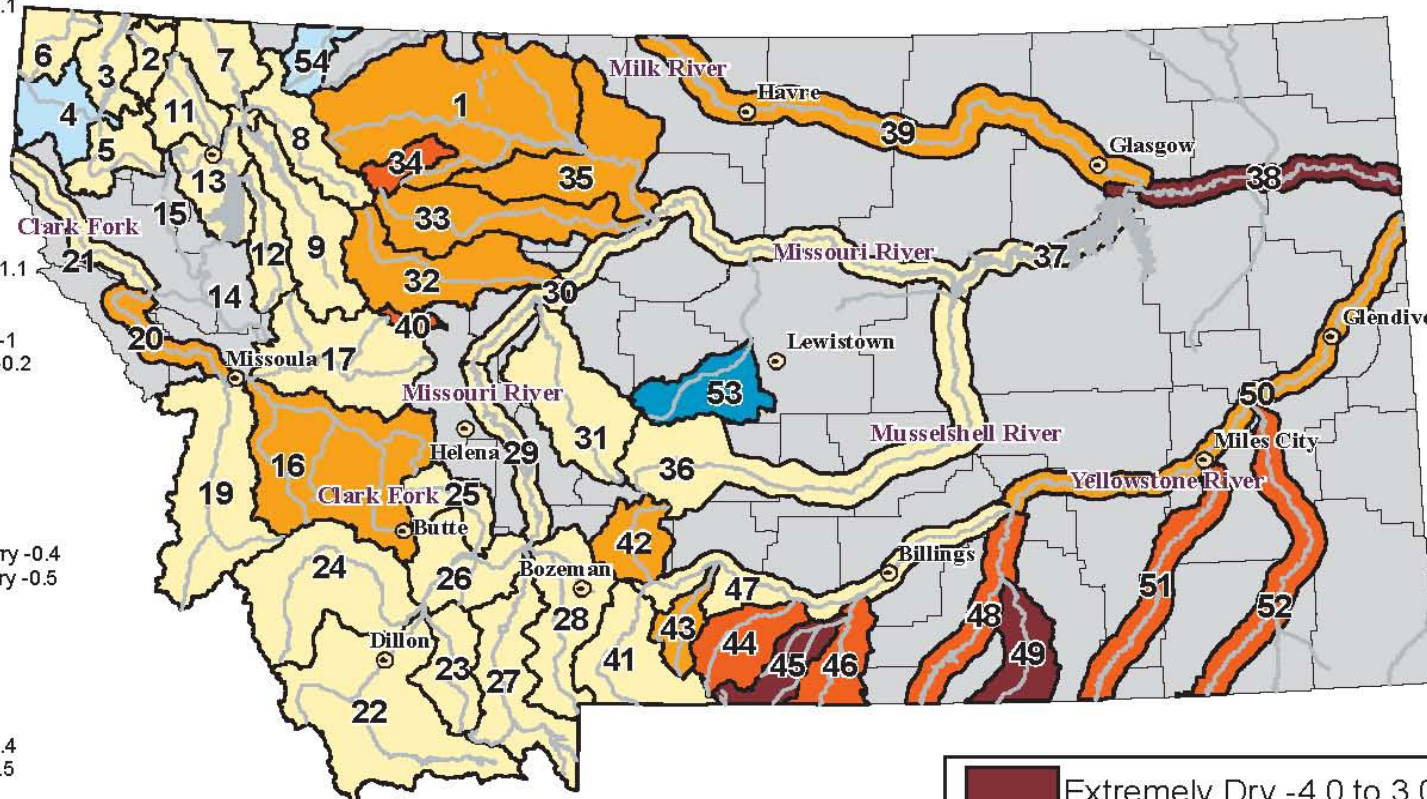
# RIVER INDEX & SWSI VALUES

- 1 Marias above Tiber Reservoir -1.3
- 2 Tobacco -0.1
- 3 Kootenai Ft. Steele to Libby Dam 0.6
- 4 Kootenai below Libby Dam 1.1
- 5 Fisher 0.6
- 6 Yaak 0.8
- 7 North FK. Flathead 0.4
- 8 Middle FK. Flathead -0.2
- 9 South FK. Flathead -0.8
- 11 Stillwater/Whitefish 0.6
- 12 Swan 0.2
- 13 Flathead at Polson 0.3
- 14 Mission Valley
- 15 Little Bitterroot
- 16 Clark Fork above Milltown -1.1
- 17 Blackfoot -0.7
- 19 Bitterroot 0
- 20 Clark Fork below Bitterroot -1
- 21 Clark Fork below Flathead -0.2
- 22 Beaverhead -0.8
- 23 Ruby 0.2
- 24 Big Hole -0.3
- 25 Boulder (Jefferson) -0.5
- 26 Jefferson 0.3
- 27 Madison 0.4
- 28 Gallatin -0.6
- 29 Missouri above Canyon Ferry -0.4
- 30 Missouri below Canyon Ferry -0.5
- 31 Smith 0
- 32 Sun -1
- 33 Teton -1.5
- 34 Birch/Dupuyer Creeks -2.4
- 35 Marias -1.5
- 36 Musselshell -0.9
- 37 Missouri above Fort Peck -0.4
- 38 Missouri below Fort Peck -3.5
- 39 Milk -1.1
- 40 Dearborn near Craig -2.4
- 41 Yellowstone above Livingston 0.2
- 42 Shields -1.9
- 43 Boulder (Yellowstone) -1.6
- 44 Stillwater -2
- 45 Rock/Red Lodge Creeks -3.5
- 46 Clarks Fork -2.1
- 47 Yellowstone above Bighorn -0.7
- 48 Bighorn below Bighorn Lake -2.4
- 49 Little Bighorn -3
- 50 Yellowstone below Bighorn -1.5
- 51 Tongue -2.8
- 52 Powder -2.6
- 53 Upper Judith River 2
- 54 Saint Mary River 1.4

# Surface Water Supply Index (SWSI) Values

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE



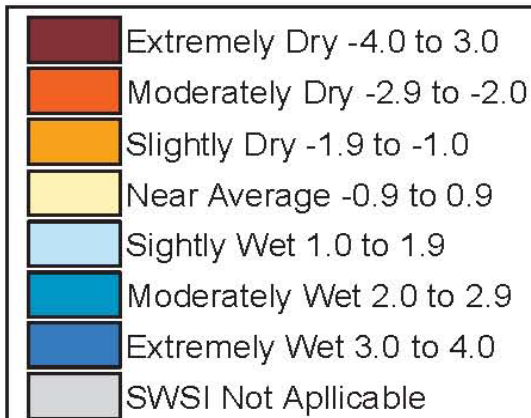
Current as of  
July 1, 2006



**NOTE:** Data used to generate  
this map are **PROVISIONAL** and  
**SUBJECT TO CHANGE.**

**NRCS** Natural Resources  
Conservation Service

<http://www.mt.nrcs.usda.gov>





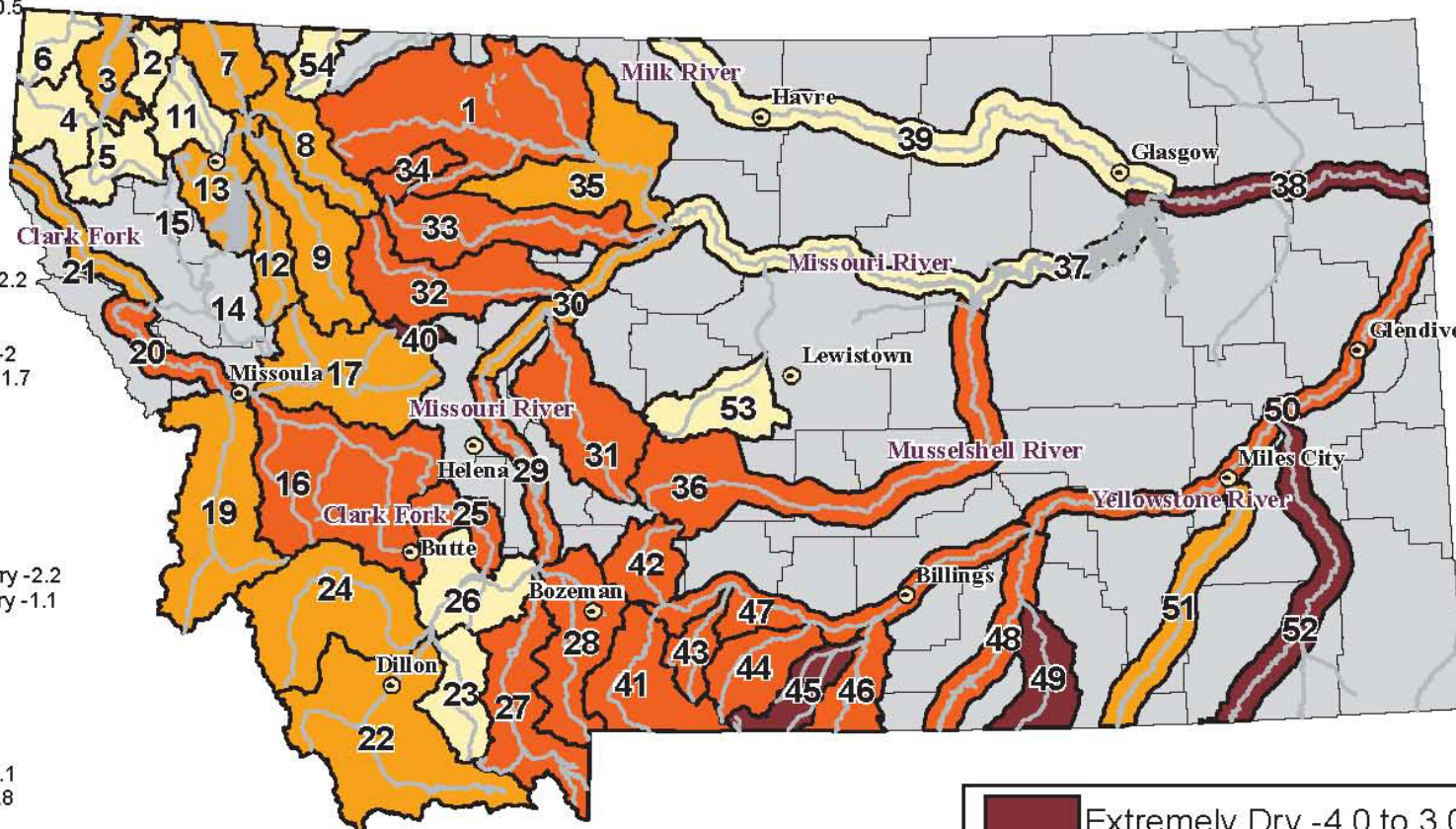
# RIVER INDEX & SWSI VALUES

- 1 Marias above Tiber Reservoir -2.5
- 2 Tobacco -0.5
- 3 Kootenai Ft. Steele to Libby Dam -1.3
- 4 Kootenai below Libby Dam -0.5
- 5 Fisher -0.5
- 6 Yaak -0.1
- 7 North FK. Flathead -1.4
- 8 Middle FK. Flathead -1.6
- 9 South FK. Flathead -1.5
- 11 Stillwater/Whitefish 0.2
- 12 Swan -1.4
- 13 Flathead at Polson -1.6
- 14 Mission Valley
- 15 Little Bitterroot
- 16 Clark Fork above Milltown -2.2
- 17 Blackfoot -1.6
- 19 Bitterroot -1.9
- 20 Clark Fork below Bitterroot -2
- 21 Clark Fork below Flathead -1.7
- 22 Beaverhead -1.2
- 23 Ruby 0.9
- 24 Big Hole -1.9
- 25 Boulder (Jefferson) -2.2
- 26 Jefferson -0.2
- 27 Madison -2.3
- 28 Gallatin -2.2
- 29 Missouri above Canyon Ferry -2.2
- 30 Missouri below Canyon Ferry -1.1
- 31 Smith -2.2
- 32 Sun -2.5
- 33 Teton -2.5
- 34 Birch/Dupuyer Creeks -2.6
- 35 Marias -1.2
- 36 Musselshell -2.3
- 37 Missouri above Fort Peck -0.1
- 38 Missouri below Fort Peck -3.8
- 39 Milk -0.6
- 40 Dearborn near Craig -3.3
- 41 Yellowstone above Livingston -2.2
- 42 Shields -2.7
- 43 Boulder (Yellowstone) -2.5
- 44 Stillwater -2.8
- 45 Rock/Red Lodge Creeks -3.4
- 46 Clarks Fork -2.7
- 47 Yellowstone above Bighorn -2.4
- 48 Bighorn below Bighorn Lake -2.9
- 49 Little Bighorn -4
- 50 Yellowstone below Bighorn -2.6
- 51 Tongue -1.9
- 52 Powder -3.4
- 53 Upper Judith River 0.4
- 54 Saint Mary River -0.9

# Surface Water Supply Index (SWSI) Values

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE



Current as of  
August 1, 2006

0 45 90 Miles

**NOTE:** Data used to generate  
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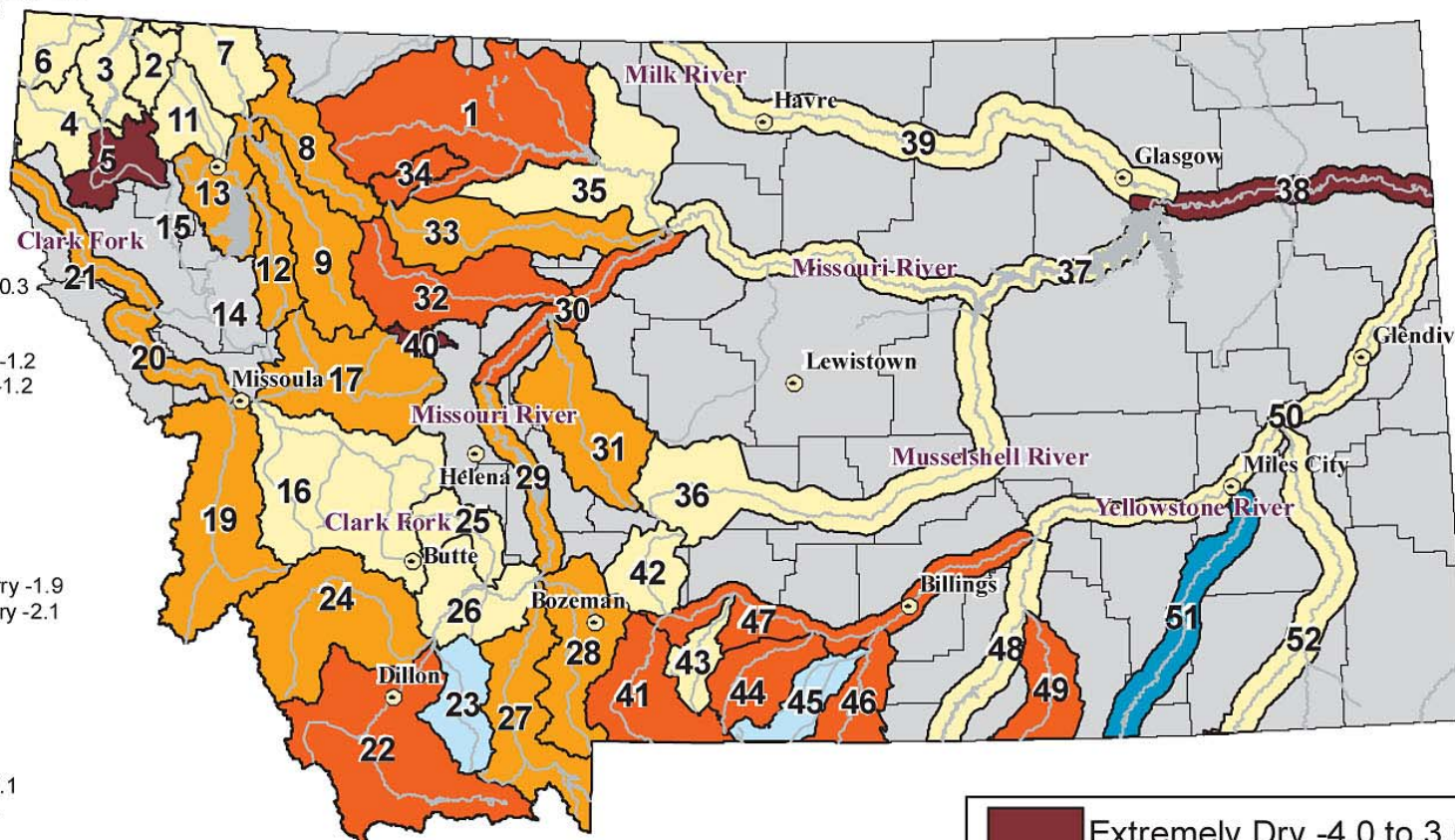
# RIVER INDEX & SWSI VALUES

- 1 Marias above Tiber Reservoir -2.2
- 2 Tobacco -0.7
- 3 Kootenai Ft. Steele to Libby Dam -0.6
- 4 Kootenai below Libby Dam 0
- 5 Fisher -3.3
- 6 Yaak -0.2
- 7 North FK. Flathead -0.2
- 8 Middle FK. Flathead -1.1
- 9 South FK. Flathead -1.5
- 11 Stillwater/Whitefish -0.5
- 12 Swan -1.4
- 13 Flathead at Polson -1.2
- 14 Mission Valley
- 15 Little Bitterroot
- 16 Clark Fork above Milltown -0.3
- 17 Blackfoot -1.3
- 19 Bitterroot -1.8
- 20 Clark Fork below Bitterroot -1.2
- 21 Clark Fork below Flathead -1.2
- 22 Beaverhead -2.3
- 23 Ruby 1.1
- 24 Big Hole -1.2
- 25 Boulder (Jefferson) 0.9
- 26 Jefferson -0.3
- 27 Madison -1.4
- 28 Gallatin -1.8
- 29 Missouri above Canyon Ferry -1.9
- 30 Missouri below Canyon Ferry -2.1
- 31 Smith -1.3
- 32 Sun -2.4
- 33 Teton -1.6
- 34 Birch/Dupuyer Creeks -2.4
- 35 Marias -0.9
- 36 Musselshell -0.8
- 37 Missouri above Fort Peck -0.1
- 38 Missouri below Fort Peck -4
- 39 Milk 0.1
- 40 Dearborn near Craig -3.2
- 41 Yellowstone above Livingston -2.3
- 42 Shields -0.2
- 43 Boulder (Yellowstone) -0.7
- 44 Stillwater -2.2
- 45 Rock/Red Lodge Creeks 1.6
- 46 Clarks Fork -2.5
- 47 Yellowstone above Bighorn -2.2
- 48 Bighorn below Bighorn Lake -0.3
- 49 Little Bighorn -2.6
- 50 Yellowstone below Bighorn -0.6
- 51 Tongue 2.8
- 52 Powder 0.9

# Surface Water Supply Index (SWSI) Values

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE



Current as of  
August 1, 2005

0 45 90 Miles

**NOTE: Data used to generate  
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	Extremely Dry -4.0 to -3.0
	Moderately Dry -2.9 to -2.0
	Slightly Dry -1.9 to -1.0
	Near Average -0.9 to 0.9
	Slightly Wet 1.0 to 1.9
	Moderately Wet 2.0 to 2.9
	Extremely Wet 3.0 to 4.0
	SWSI Not Applicable



## TABULAR SWSI COMPARISONS

	Moderately Wet	Slightly Wet	Average	Slightly Dry	Moderately Dry	Extremely Dry
August-05	1	2	18	14	10	3
July-06	1	2	27	10	7	3
August-06	0	0	11	14	20	5
August 05 vs 06	1	2	7	0	-10	-2
July 06 vs August 06	1	2	16	-4	-13	-2

# SUMMARY

Without good rains, surface water conditions continue to decline.

- Soil moisture, as represented by the Fort Assiniboine station, continue to decline at the shallow depths and are worse than the previous four years. However, the deeper subsoil has improved this season and is second best of the past five years.
- From July 1 to August 1, SWSI's have fewer basins in average to wet categories and significantly more basins in the dry categories.

Looking ahead – Typically we are near the period where streams are at the lowest seasonal flows. Plant growth will be shutting down, days are getting shorter, temperatures should be cooling, and with any luck we should be getting fall moisture in the next four to six weeks. All this should improve surface water conditions and we can hope for improved conditions ahead.